

Regarding:

Project: OPL EML ID: 294668

Report for:

Mr. Roger Olsen CDM (Camp Dresser & McKee, Inc.) 1331 17th Street Suite 1200 Denver, CO 80202-1562

Date of Analysis: 05-03-2007

Approved by:

Northwest Lab Manager Dr. Kamashwaran Ramanathan

This coversheet is included with your report in order to comply with AIHA and ISO accreditation requirements.

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank corrections of results is not a standard practice. The results relate only to the items tested.

Environmental Microbiology Laboratory, Inc. ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.



Environmental Microbiology Laboratory, Inc. 1150 Bayhill Drive, Suite 100, San Bruno, CA 94066

(650) 829-5800 Fax (650) 829-5852 www.emlab.com

Client: CDM (Camp Dresser & McKee, Inc.) C/O: Mr. Roger Olsen Re: OPL

Date of Sampling: 04-24-2007 Date of Receipt: 04-26-2007 Date of Report: 05-03-2007

MPN REPORT

Location: 1, EOF07-232-042407

I ah ID Varciont: 1202222 1

Sample size: 500		Unit: 100 ml		Percent solid: N/A	
Bacteria	Method	Setup Time	MPN*/Unit	LCL**	UCL**
Fecal Coliform	SM 9221 E	04/26/07 13:00	12,000	4,200	34,000
Total Coliform	SM 9221 B	04/26/07 13:00	> 12,000	4,200	-
E. coli	SM 9221 F	04/26/07 13:00	12,000	4,200	34,000
Staphylococcus aureus	BAM 12	04/26/07 13:00	< 1.1	-	7.2
Enterococcus group	SM 9230 B	04/26/07 13:00	2,700	1,100	6,400
Salmonella species	BAM 5	04/26/07 13:00	2	0.01	14

Comments:

Location: 2, EOF07-LOR#1-04207

Lab ID-Version 1: 1283321-1

Sample size: 500		Unit: 100 ml		Percent solid: N/A	
Bacteria	Method	Setup Time	MPN*/Unit	LCL**	UCL**
Fecal Coliform	SM 9221 E	04/26/07 13:00	3,300	1,500	7,500
Total Coliform	SM 9221 B	04/26/07 13:00	> 12,000	4,200	-
E. coli	SM 9221 F	04/26/07 13:00	3,300	1,500	7,500
Staphylococcus aureus	BAM 12	04/26/07 13:00	< 1.1	-	7.2
Enterococcus group	SM 9230 B	04/26/07 13:00	> 12,000	4,200	
Salmonella species	BAM 5	04/26/07 13:00	< 2	-	14

Comments:

*MPN - Most Probable Number

*MPN methods:
MPN methods for the Examination of Waters and Wastewaters, 20th ed. 1998.
FDA BAM - U.S. Food and Drug Administration Bacteriological Analytical Manual, January 2001.
MPN values are calculated using the method of Thomas (1942).
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EML ab ID: 294668, Page 1 of 2



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Re: OPL

Date of Sampling: 04-24-2007 Date of Receipt: 04-26-2007 Date of Report: 05-03-2007

MPN REPORT

Location: 3, EOF07-230-042407

Lab ID-Version 1: 1283320-1

Sample size: 500		Unit: 100 ml		Percent solid: N/A	
Bacteria	Method	Setup Time	MPN*/Unit	LCL**	UCL**
Fecal Coliform	SM 9221 E	04/26/07 13:00	12,000	4,200	34,000
Total Coliform	SM 9221 B	04/26/07 13:00	> 12,000	4,200	-
E. coli	SM 9221 F	04/26/07 13:00	12,000	4,200	34,000
Staphylococcus aureus	BAM 12	04/26/07 13:00	< 1.1	-	7.2
Enterococcus group	SM 9230 B	04/26/07 13:00	> 12,000	4,200	-
Salmonella species	BAM 5	04/26/07 13:00	< 2	-	14

Comments:

Location: 4, SBC2-042507

Lab ID-Version : 1283319-1

Sample size: 500		Unit: 100 ml		Percent solid: N/A	
Bacteria	Method	Setup Time	MPN*/Unit	LCL**	UCL**
Fecal Coliform	SM 9221 E	04/26/07 13:00	> 12,000	4,200	•
Total Coliform	SM 9221 B	04/26/07 13:00	> 12,000	4,200	-
E. coli	SM 9221 F	04/26/07 13:00	5,400	1,600	18,000
Staphylococcus aureus	BAM 12	04/26/07 13:00	< 1.1		7.2
Enterococcus group	SM 9230 B	04/26/07 13:00	4,000	1,200	14,000
Salmonella species	BAM 5	04/26/07 13:00	(*2 -)	0.01	14

Comments.

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EMLab ID: 294668, Page 2 of 2



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EMLab P&K

Report for:

Mr. Roger Olsen CDM (Camp Dresser & McKee, Inc.) 1331 17th Street Suite 1200 Denver, CO 80202-1562

Regarding:

Project: Oklahoma Poultry EML ID: 364700

Approved by:

Lab Manager

Dr. Kamashwaran Ramanathan

Dates of Analysis: MPN-Standard Bacteria: 12-17-2007

Project SOPs: MPN-Standard Bacteria (100130)

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EMLab P&K

1150 Bayhill Drive, Suite 100, San Bruno, CA 94066 (650) 829-5800 Fax (650) 829-5852 www.emlab.com

Client: CDM (Camp Dresser & McKee, Inc.)

C/O: Mr. Roger Olsen Re: Oklahoma Poultry

Date of Submittal: 11-29-2007 Date of Receipt: 11-30-2007 Date of Report: 12-17-2007

MPN REPORT

Location: FAC-13-112907, Litter					on‡: 1596203-1
Sample size: 35		Unit: 1 gram		Percent solid: 1	V/A
Bacteria	Method	Setup Time	MPN*/Unit	LCL**	UCL**
Fecal Coliform	SM 9221 E	11/30/07 13:30	4,600	1,100	19,000
Total Coliform	SM 9221 B	11/30/07 13:30	11,000	4,000	30,000
E. coli	SM 9221 F	11/30/07 13:30	1,800	680	4,800
Staphylococcus aureus	BAM 12	11/30/07 13:30	< 0.18	-	1.3
Enterococcus group	SM 9230 B	11/30/07 13:30	> 120,000	43,000	-
Salmonella species	BAM 5	11/30/07 13:30	< 0.18	-	1.3

Comments:

Therpretation is left to the company and/or persons who conducted the field work
\$\frac{1}{4}\$ A "Version" greater than I indicates amended data.

EMLab ID: 364700, Page 1 of 1

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Regarding:

Project: 6 Soil Samples EML ID: 235930

Report for:

Mr. Roger Olsen CDM (Camp Dresser & McKee, Inc.) 1331 17th Street Suite 1200 Denver, CO 80202-1562

Date of Analysis: 08-01-2006 and 08-01-2006

Approved by:

Dr. Harriet Burge Director of Aerobiology

Dr. David A. Bell Laboratory President

This coversheet is included with your report in order to comply with AIHA and ISO accreditation requirements

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1150 Bayhill Drive, Suite 100, San Bruno, CA 94066 (650) 829-5800 Fax (650) 829-5852 www.emlab.com

Date of Sampling: 07-18-2006 and 07-19-2006 Date of Receipt: 07-27-2006

Date of Report: 08-02-2006

C/O: Mr. Roger Olsen Re: 6 Soil Samples MPN REPORT

Client: CDM (Camp Dresser & McKee, Inc.)

Location: 1, LAL17-C-2

Lab ID-Version‡: 1027265-1

Sample size: 35		Unit: 1 gram		Percent solid: N/A	
Bacteria	Method	Setup Time	MPN*/Unit	LCL**	UCL**
Fecal Coliform	SM 9221 E	07/27/06 14:18	0.69	0.22	2.2
Total Coliform	SM 9221 B	07/27/06 14:18	120,000	43,000	340,000
E. coli	SM 9221 F	07/27/06 14:18	0.69	0.22	2.2
Staphylococcus aureus	BAM 12	07/27/06 14:18	< 0.18		1.3
Enterococcus group	SM 9230 B	07/27/06 14:18	760	250	2,400
Salmonella species	BAM 5	07/27/06 14:18	< 0.18	-	1.3

Comments:

Location: 2, LAL17-C-2-O

Lab ID-Versiont: 1007266-1

Sample size: 35		Unit: 1 gram		Percent solid: N/A	
Bacteria	Method	Setup Time	MPN*/Unit	LCL**	UCL**
Fecal Coliform	SM 9221 E	07/27/06 14:18	< 0.18		1.3
Total Coliform	SM 9221 B	07/27/06 14:18	1,200	490	2,900
E. coli	SM 9221 F	07/27/06 14:18	< 0.18	-	1.3
Staphylococcus aureus	BAM 12	07/27/06 14:18	< 0 18	•	1.3
Enterococcus group	SM 9230 B	07/27/06 14:18	2.2	0.89	5.4
Salmonella species	BAM 5	07/27/06 14:18	< 0.18	-	1.3

Comments:

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MPN methods:

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FDA BAM - U.S. Food and Drug Administration Bacteriological Analytical Manual, January 2001.

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EMILab ID: 235930, Page 1 of 3



1150 Bayhill Drive, Suite 100, San Bruno, CA 94066 (650) 829-5800 Fax (650) 829-5852 www.emlab.com

Date of Sampling: 07-18-2006 and 07-19-2006

Date of Receipt: 07-27-2006 Date of Report: 08 02 2006

C/O: Mr. Roger Olsen Re: 6 Soil Samples

Client: CDM (Camp Dresser & McKee, Inc.)

MPN REPORT

Location: 3, LAL15-B-2

Lab ID-Version 1: 1027267-1

Sample size: 35		Unit: 1 gram		Percent solid: N/A	
Bacteria	Method	Setup Time	MPN*/Unit	LCL**	UCL**
Fecal Coliform	SM 9221 E	07/27/06 14:18	2,000	280	14,000
Total Coliform	SM 9221 B	07/27/06 14:18	> 120,000	43,000	
E. coli	SM 9221 F	07/27/06 14:18	2,000	280	14,000
Staphylococcus aureus	BAM 12	07/27/06 14:18	< 0.18	-	1.3
Enterococcus group	SM 9230 B	07/27/06 14:18	1,800	680	4,800
Salmonella species	BAM 5	07/27/06 14:18	< 0.18	_	1.3

Comments

Location: 4, LAL15-B-2-Q

Lab ID-Version 1: 1027268-1

Sample size: 35		Unit: 1 gram		Percent solid: N/A	
Bacteria	Method	Setup Time	MPN*/Unit	LCL**	UCL**
Feeal Coliform	SM 9221 E	07/27/06 14:18	2,400	800	7,200
Total Coliform	SM 9221 B	07/27/06 14:18	2,400	800	7,200
E. coli	SM 9221 F	07/27/06 14:18	460	110	1,900
Staphylococcus aureus	BAM 12	07/27/06 14:18	< 0.18	-	1.3
Enterococcus group	SM 9230 B	07/27/06 14:18	2,400	800	7,200
Salmonella species	BAM 5	07/27/06 14:18	< 0.18	_	1.3

Comments:

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EMILab ID: 235930, Page 2 of 3



Environmental Microbiology Laboratory, Inc. 1150 Bayhill Drive, Suite 100, San Bruno, CA 94066

(650) 829-5800 Fax (650) 829-5852 www.emlab.com

Date of Sampling: 07-18-2006 and 07-19-2006 Date of Receipt: 07-27-2006 Date of Report: 08-02-2006

C/O: Mr. Roger Olsen Re: 6 Soil Samples

Client: CDM (Camp Dresser & McKee, Inc.)

MPN REPORT

Location: 5, LAL15-B-4

Lab	ID-Version‡: 1027269-1

Sample size: 35		Unit: 1 gram		Percent solid: N/A	
Bacteria	Method	Setup Time	MPN*/Unit	LCL**	UCL**
Fecal Coliform	SM 9221 E	07/27/06 14:18	0.81	0.25	2.6
Total Coliform	SM 9221 B	07/27/06 14:18	240	80	720
E. coli	SM 9221 F	07/27/06 14:18	0.2	0.03	1.4
Staphylococcus aureus	BAM 12	07/27/06 14:18	< 0.18		1.3
Enterococcus group	SM 9230 B	07/27/06 14:18	0.46	0.11	1.9
Salmonella species	BAM 5	07/27/06 14:18	< 0.18	-	1.3

Comments:

Location: 6, LAL15-B-6

Sample size: 35		Unit 1 gram		Percent solid: N/A			
Bacteria	Method	Setup Time	MPN*/Unit	LCL**	UCL**		
Fecal Coliform	SM 9221 E	07/27/06 14:18	24	8	72		
Total Coliform	SM 9221 B	07/27/06 14:18	1,400	480	4,100		
E. coli	SM 9221 F	07/27/06 14:18	< 0.18	-	1.3		
Staphylococcus aureus	BAM 12	07/27/06 14:18	< 0.18	_	1.3		
Enterococcus group	SM 9230 B	07/27/06 14:18	< 0.18	-	1.3		
Salmonella species	BAM 5	07/27/06 14:18	< 0.18	 	1.3		

Comments:

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EMLab ID: 235930, Page 3 of 3



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Our Allergen Analysis COC can be downloaded at www.EMlab.com

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Report for:

Mr. Roger Olsen CDM (Camp Dresser & McKee, Inc.) 1331 17th Street Suite 1200 Denver, CO 80202-1562

Regarding:

Project: OPL EML ID: 233290

Date of Analysis: 07-28-2006

Approved by:

Or. Harriet Burge Director of Aerobiology

Dr. David A. Beil Laboratory President

This coversheet is included with your report in order to comply with AIHA and ISO accreditation requirements

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank corrections of results is not a standard practice. The results relate only to the items tested.

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1150 Bayhill Drive, Suite 100, San Bruno, CA 94066 (650) 829-5800 Fax (650) 829-5852 www.emlab.com

Client: CDM (Camp Dresser & McKee, Inc.)

C/O: Mr. Roger Olsen

Re: OPL

Date of Sampling: 07-13-2006 Date of Receipt: 07-14-2006 Date of Report: 08-02-2006

MPN REPORT

Sample size: 100		Unit: 100 ml		Percent solid: N/A			
Bacteria	Method	Setup Time	MPN*/Unit	LCL**	UCL**		
Fecal Coliform	SM 9221 E	07/14/06 16:45	<2	-	14		
Total Coliform	SM 9221 B	07/14/06 16:45	< 2		14		
E. coli	SM 9221 F	07/14/06 16:45	< 2	-	14		
Staphylococcus aureus	BAM 12	07/14/06 16:45	<1.1	-	7.2		
Enterococcus group	SM 9230 B	07/14/06 16:45	< 2	•	14		
Salmonella species	BAM 5	07/14/06 16:45	<2	-	14		

Comments:

Location: 1, FAC-05

Lab ID-Version‡: 101501	ł 3- I	1	
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T -1 TO 37----- 1016010 1

Sample size: 50		Unit: 1 gram		Percent solid: N/A			
Bacteria	Method	Setup Time	MPN*/Unit	LCL**	UCL**		
Fecal Coliform	SM 9221 E	07/14/06 16:45	> 120,000	43,000			
Total Coliform	SM 9221 B	07/14/06 16:45	> 120,000	43,000	•		
E coli	SM 9221 F	07/14/06 16:45	> 120,000	43,000	-		
Staphy lococcus aureus	BAM 12	07/14/06 16:45	< 0.18	-	1.3		
Enterococcus group	SM 9230 B	07/14/06 16:45	120,000	43,000	340,000		
Salmonella species	BAM 5	07/14/06 16:45	< 0.18	-	1.3		

Comments:

*MPN - Most Probable Number. MPN methods

MPN methods
SM - Standard Methods for the Examination of Waters and Wastewaters, 20th ed. 1998.
FDA BAM - U.S. Food and Drug Administration Bacteriological Analytical Manual, January 2001.
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EMLab ID: 233290, Page 1 of 2

^{**}The Upper 95% Confidence Limit (UCL) and Lower 95% Confidence Limit (LCL) are calculated using the method of deMan (1983) and represent that "before the tubes are inoculated, the chance is at least 95 percent that the confidence interval associated with the eventual result will enclose the actual concentration" (FDA BAM).

Interpretation is left to the company and/or persons who conducted the field work.

‡ A "Version" greater than 1 indicates amended data.

EMLab ID: 233290. Page 1 of

Environmental Microbiology Laboratory, Inc. 1150 Bayhill Drive, Suite 100, San Bruno, CA 94066 (650) 829-5800 Fax (650) 829-5852 www.emlab.com

Client: CDM (Camp Dresser & McKee, Inc.) C/O: Mr. Roger Olsen

Re: OPL

Date of Sampling: 07-13-2006 Date of Receipt: 07-14-2006 Date of Report: 08-02-2006

MPN REPORT

Location: 2, FAC-04 Sample size: 50		Unit: 1 gram		Percent solid: N/A			
Bacteria	Method	Setup Time	MPN*/Unit	LCL**	UCL**		
Fecal Coliform	SM 9221 E	07/14/06 16:45	> 120,000	43,000	-		
Total Coliform	SM 9221 B	07/14/06 16:45	> 120,000	43,000	-		
E. coli	SM 9221 F	07/14/06 16:45	> 120,000	43,000	-		
Staphylococcus aureus	BAM 12	07/14/06 16:45	< 0.18	-	1.3		
Enterococcus group	SM 9230 B	07/14/06 16:45	17,000	7,300	40,000		
Salmonella species	BAM'5	07/14/06 16:45	< 0.18	-	1.3		

Comments:

*MPN - Most Probable Number. MPN methods:

MPN methods:

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FDA BAM - U.S. Food and Drug Administration Bacteriological Analytical Manual, January 2001.

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EMLab ID: 233290, Page 2 of 2

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Regarding:

Project: OPL EML ID: 232776

Report for:

Mr. Roger Olsen CDM (Camp Dresser & McKee, Inc.) 1331 17th Street Suite 1200 Denver, CO 80202-1562

Date of Analysis: 07-27-2006

Approved by:

Dr. Harriet Burge Director of Aerobiology

Dr. David A. Bell Laboratory President

This coversheet is included with your report in order to comply with AIHA and ISO accreditation requirements.

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of blological data, the number of significant digits that is used for interpretation should generally be one or two. All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank corrections of results is not a standard practice. The results relate only to the items tested.

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1150 Bayhill Drive, Suite 100, San Bruno, CA 94066 (650) 829-5800 Fax (650) 829-5852 www.emlab.com

Client: CDM (Camp Dresser & McKee, Inc.) C/O: Mr. Roger Olsen

Re: OPL

Date of Sampling: 07-11-2006 Date of Receipt: 07-12-2006 Date of Report: 08-02-2006

MPN REPORT

Sample size: 500

Fecal Coliform

Location: 1, LAL 155P2

Bacteria

Lab ID-Version	on‡: 1013081-1				
Percent solid: N/A					
LCL**	UCL**				
400	3,000				
1,600	18,000				
400	3,000				
-	7.2				
	Percent solid: N LCL** 400 1,600				

Total Coliform	SM 9221 B	07/12/06 14:00	5,400	1,600	18,000
E. coli	SM 9221 F	07/12/06 14:00	1,100	400	3,000
Staphylococcus aureus	BAM 12	07/12/06 14:00	< 1.1	-	7.2
Enterococcus group	SM 9230 B	07/12/06 14:00	2,400	800	7,200
Salmonella species	BAM 5	07/12/06 14:00	2	0.01	14

Setup Time

07/12/06 14:00

Unit: 100 ml

Method

SM 9221 E

Comments:

Location: 2. LAL 156WI

Sample size: 500		Unit: 100 ml	Percent solid: N/A			
Bacteria	Method	Setup Time	MPN+/Unit	LCL**	UCL**	
Fecal Coliform	SM 9221 E	07/12/06 14:00	< 2	-	14	
Total Coliform	SM 9221 B	07/12/06 14:00	< 2	-	14	
E. coli	SM 9221 F	07/12/06 14:00	< 2	-	14	
Staphylococcus aureus	BAM 12	07/12/06 14:00	< 1.1	-	7.2	
Enterococcus group	SM 9230 B	07/12/06 14:00	< 2	-	14	
Salmonella species	BAM 5	07/12/06 14:00	< 2	-	14	

Comments:

*MPN - Most Probable Number, MPN methods:

MPN methods:
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EMLab ID: 232776, Page 1 of 2



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EMLab ID: 232776. Page 1 of

Environmental Microbiology Laboratory, Inc. 1150 Bayhill Drive, Suite 100, San Bruno, CA 94066 (650) 829-5800 Fax (650) 829-5852 www.emlab.com

Client: CDM (Camp Dresser & McKee, Inc.) C/O: Mr. Roger Olsen

Re: OPL

Date of Sampling: 07-11-2006 Date of Receipt: 07-12-2006 Date of Report: 08-02-2006

MPN REPORT

Lab ID-Version‡: 1013083-1 Location: 3, LAL 15C-D Percent solid: N/A Unit: 100 ml Sample size: 500 UCL** LCL** MPN*/Unit Method Setup Time Bacteria 14 07/12/06 14:00 <2 SM 9221 E Fecal Coliform 14 <2 07/12/06 14:00 SM 9221 B Total Coliform 14 < 2 07/12/06 14:00 SM 9221 F E. coli 7.2 < 1.1 07/12/06 14:00 Staphylococcus aureus **BAM 12** 14 <2 SM 9230 B 07/12/06 14:00 Enterococcus group 14 07/12/06 14:00 <2 BAM 5 Salmonella species

Comments:

Location	4 T	AT.	. 14-D-D	

Lab	ID-7	Version‡:	1013084-1	l

	Unit: 100 ml		Percent solid: 1	
Method	Setup Time	MPN*/Unit	LCL**	UCL**
	07/12/06 14:00	<2	-	14
	07/12/06 14:00	<2	_	14
	07/12/06 14:00	<2		14
	07/12/06 14:00	<1.1	-	7.2
	07/12/06 14:00	< 2	-	14
		< 2	_	14
	Method SM 9221 E SM 9221 B SM 9221 F BAM 12 SM 9230 B BAM 5	Method Setup Time SM 9221 E 07/12/06 14:00 SM 9221 B 07/12/06 14:00 SM 9221 F 07/12/06 14:00 BAM 12 07/12/06 14:00 SM 9230 B 07/12/06 14:00	Method Setup Time MPN*/Unit SM 9221 E 07/12/06 14:00 < 2	Method Setup Time MPN*/Unit LCL** SM 9221 E 07/12/06 14:00 <2

Comments:

*MPN - Most Probable Number.

*MPN - Most Probable Number.

MPN methods:

MPN methods:

MPN methods for the Examination of Waters and Wastewaters, 20th ed. 1998.

SM - Standard Methods for the Examination Bacteriological Analytical Manual, January 2001.

FDA BAM - U.S. Food and Drug Administration Bacteriological Analytical Manual, January 2001.

MPN values are calculated using the method of Thomas (1942).

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FMI ab ID: 232776. Page 2 of

EMLab ID: 232776, Page 2 of 2



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Copyright 2013-0015 Enforcemental Material degr. (America, Sun, 2015) TAT by Anthele Contact on at 856-802-6615 (Pro. 2020) TAT on A 15 - Origin Control 1/22/20 - Real Classe (April) Over Allerger, Analysis (CA) can be controlled at several billade, come





Regarding:

Project: OPL EML ID: 233290

Report for:

Mr. Roger Olsen CDM (Camp Dresser & McKee, Inc.) 1331 17th Street Suite 1200 Denver, CO 80202-1562

Date of Analysis: 07-28-2006

Approved by:

Dr. Harriet Burge Director of Aerobiology

Dr. David A. Bell Laboratory President

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Client: CDM (Camp Dresser & McKec, Inc.) C/O: Mr. Roger Olsen

Re: OPL

Date of Sampling: 07-13-2006 Date of Receipt: 07-14-2006 Date of Report: 08-02-2006

MPN REPORT

Lab ID-Version 1: 1015012-1 Location: 1, Glenn well #1 Percent solid: N/A Unit: 100 ml Sample size: 100 UCL** LCL** MPN*/Unit Setup Time Method Bacteria 14 SM 9221 E 07/14/06 16:45 < 2 Fecal Coliform 14 <2 07/14/06 16:45 SM 9221 B Total Coliform 14 -<2 07/14/06 16:45 SM 9221 F E. coli 7.2 _ < 1.1 Staphylococcus aureus 07/14/06 16:45 **BAM 12** 14 <2 SM 9230 B 07/14/06 16:45 Enterococcus group 14 -07/14/06 16:45 <2 BAM 5 Salmonella species

Unit: 1 gram

Setup Time

07/14/06 16:45

07/14/06 16:45

07/14/06 16:45

07/14/06 16:45

07/14/06 16:45

07/14/06 16:45

Comments:

Sample size: 50

Fecal Coliform

Total Coliform

E. coli

Bacteria

Staphylococcus aureus

Enterococcus group

Salmonella species

Location: 1, FAC-05

Method

SM 9221 E

SM 9221 B

SM 9221 F

BAM 12

SM 9230 B

BAM 5

	Percent solid: N/A							
MPN*/Unit	LCL**	UCL**						
> 120,000	43,000	-						
> 120,000	43,000	•						
> 120,000	43,000	-						
< 0.18		1.3						
120,000	43,000	340,000						

43,000

120,000

< 0.18

I ab ID-Version1: 1015013-1

1.3

Comments:

*MPN - Most Probable Number.

*MPN - Most Probable Number.

MPN methods:

MPN methods:

MPN methods:

MPN additional methods for the Examination of Waters and Wastewaters, 20th ed. 1998.

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FDA BAM - U.S. Food and Drug Administration Bacteriological Analytical Manual, January 2001.

MPN values are calculated using the method of Thomas (1942).

The MPN method was developed to handle samples with a high load of particulate matter, such as turbid waters, soils, wastewaters and The MPN method was developed to handle samples with a high load of particulate matter, such as turbid waters, soils, wastewaters and remarked shudges. MPN values are statistically derived calculations of viable bacterial density based on the assumptions of random distribution of single, sludges. MPN values are statistically derived calculations of viable bacterial density based on the assumptions of random distribution of single, sludges. MPN values are statistically derived calculations of viable bacterial density based on the assumptions of random distribution of single, sludges. MPN values are statistically derived calculations of viable bacterial density based on the assumptions of random distribution of single, sludges. MPN values are statistically derived calculations of viable bacterial density based on the assumptions of random distribution of single, sludges. MPN values are statistically derived calculations of viable bacterial density based on the assumptions of random distribution of single, sludges. MPN values are statistically derived calculations of values are statistically derived calculati

**The Upper 95% Confidence Limit (UCL) and Lower 95% Confidence Limit (LCL) are calculated using the method of deMan (1983) and result will enclose the actual concentration" (FDA BAM).

Interpretation is left to the company and/or persons who conducted the field work.

‡ A "Version" greater than 1 indicates amended data.

EMLab 1D: 233290, Page 1 or

EMLab 1D: 233290, Page 1 of 2



Environmental Microbiology Laboratory, Inc. 1150 Bayhill Drive, Suite 100, San Bruno, CA 94066

(650) 829-5800 Fax (650) 829-5852 www.emlab.com

Client: CDM (Camp Dresser & McKee, Inc.) C/O: Mr. Roger Olsen

Re: OPL

Date of Sampling: 07-13-2006 Date of Receipt: 07-14-2006 Date of Report: 08-02-2006

MPN REPORT

Lab ID-Version : 1015014-1 Location: 2, FAC-04 Percent solid: N/A Unit: 1 gram Sample size: 50 LCL** UCL** MPN*/Unit Bacteria Method Setup Time > 120,000 Fecal Coliform SM 9221 E 07/14/06 16:45 43,000 43,000 SM 9221 B 07/14/06 16:45 > 120,000 _ Total Coliform 43,000 > 120,000 SM 9221 F 07/14/06 16:45 E. coli 1.3 **BAM 12** 07/14/06 16:45 < 0.18 Staphylococcus aureus 40,000 17,000 7,300 Enterococcus group SM 9230 B 07/14/06 16:45 07/14/06 16:45 < 0.18 1.3 BAM 5 Salmonella species

Comments:

*MPN - Most Probable Number. MPN methods:

MPN methods:

SM - Standard Methods for the Examination of Waters and Wastewaters, 20th ed. 1998.

FDA BAM - U.S. Food and Drug Administration Bacteriological Analytical Manual, January 2001.

MPN values are calculated using the method of Thomas (1942).

The MPN method was developed to handle samples with a high load of particulate matter, such as turbid waters, soils, wastewaters and sludges. MPN values are statistically derived calculations of viable bacterial density based on the assumptions of random distribution of single, non-clustered, bacteria not attached to particulate matter within a sample. Due to the fact that bacteria can cluster and adhere to materials, values determined by the MPN method should be considered estimates in many instances.

**The Upper 95% Confidence Limit (UCL) and Lower 95% Confidence Limit (LCL) are calculated using the method of deMan (1983) and represent that "before the tubes are inoculated, the chance is at least 95 percent that the confidence interval associated with the eventual result will enclose the actual concentration" (FDA BAM) Interpretation is left to the company and/or persons who conducted the field work.

‡ A "Version" greater than 1 indicates amended data.

EMLab ID: 233290, Page 2 of 2



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Page 23 of 24

Oklahoma Poultry Project 2006 - 2007 Summary of Litter and Soil Sampling Program

Integrator	Grower	Properties	LAL ID	Subareas	Fields	House	House ID	House Type
Tyson	Butler - Westville Complex 123	1	LAL10 A, B	2	2	1	FAC-06	Broiler
Tyson	McGarrah	1	LAL12 A-D	4	4	1	FAC-07	Broiler
Tyson	Pigeon	1	LAL7 A-D	4	3	1	FAC-01	Broiler
Tyson?	Non-grower - Ren Butler - probable Tyson	1	LAL8 A-D	4	3	0	-	
Tyson	Butler Green Country Complex No. 9	1	-	0	0	1	FAC-15	Broiler
Tyson	Butler Green Country Complex No. 12	1	-	0	0	1	FAC-18	Broiler
Tyson	Barney Nubbie	2	LAL21 A-D	4	4	1	FAC-12	Broiler
Tyson	Research Farm	1	LAL20 A-C	3	3	0	-	Broiler
,,==::	TYSON TOTAL	9	6	21	19	6	6	Broilers
0.11	Anderson & Anderson-Chancellor - Section	2	LAL5 A-D	T 4	3	2	FAC-10, 11	Pullets
Cobb	Anderson - Section 9	1	LAL6 A-D	4	1	0	17.10 .01.11	
Cobb		1	LAL18 A-D	4	2	0		
Cobb	Anderson - Section 33 COBB TOTAL	4	3	12	6	2	2	Pullets
	1-3					<u> </u>		
Simmons	Reed	1	LAL9 A-D	4	3	1	FAC-03	Broiler
Simmons	Collins - historical	1	LAL13 A-D	4	4	0		
Simmons	Barnes - historical	1	LAL1 A	1	1	0		
							FAC-1A, FAC	
Simmons	Barnes - compost applied	1	LAL2 A	1	1	1	1B, FAC-1C	Broiler
Simmons	Non-grower - Lane - current - from Barnes	1	LAL3 A,B	2	1	0		B "
Simmons	Loftin	1	LAL17 A-D	4	1	1	FAC-02	Broiler
	Non-grower - Wofford - from Loftin							
Simmons?	(Simmons) - Bermuda Question	1	LAL11 A-D	4	2	0		- "
	SIMMONS TOTAL	7	7	20	13	3	3	Broilers
George's	Glenn	2	LAL14 A-D	4	T 4	1	FAC-05	Broiler
George's	Morrison Broilers	1	LAL19 A-D	4	4	1	FAC-11	Broiler
George's	Ricky Reed	1	LAL23 A-D	4	2	1	FAC-16	Broiler
George's	GEORGE'S TOTAL	4	3	12	10	3	3	Broiler
Petersons	Saunders	1	LAL15 A-D	4	4	1	FAC-04	Broiler
Petersons	O'Leary	1	-	0	0	1	FAC-13	Broiler
Petersons	Englemen	1	LAL22 A-D	4	4	1	FAC-17	Pullets
	PETERSON TOTAL	3	2	8	8	3	32	Broiler
0:	Cabusha	1 1	LAL16 A-D	1 4	1 4	T 1	FAC-08	Turkey
Cargill	Schwabe	1	LAL TO A-D	0	0	1	FAC-14	Turkey
Cargill	Masters CARGILL TOTAL	2	1	4	4	2	2	Turkey
	10,11,10,12							
Control	Nickel Preserve - Old Pasture	1	CL-2 A,B	2	2	0		
Control	Nickel Preserve - Forest	1	CL-1 A,B	2	2	0		
Control	Cusick Property - New Pasture	1	CL-3 A,B	2	2	0		
	CONTROL FIELD TOTALS	3	3	6	6	0	0	

32

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ATTORNEY WORK PRODUCT - DO NOT PRODUCE

Litter and soil summary_2006-2007 Program.xls

2006-2007 SAMPLE TOTALS

Integrator	Grower	Properties	LAL ID	Subareas	Fields	House	House ID	
Tyson	Butler - Westville Complex 123	11	LAL10 A, B	2	2	1	FAC-06	Broiler
Tyson	McGarrah	1	LAL12 A-D	4	4	1	FAC-07	Broiler
Tyson	Pigeon	1	LAL7 A-D	4	3	1	FAC-01	Broiler
Tyson?	Non-grower - Ren Butler - probable Tyson	1	LAL8 A-D	4	3	0		
	TYSON TOTAL	4		14	12	3		Broilers
Cobb	Anderson & Anderson-Chancellor - Section 3	2	LAL5 A-D	4	3	2	FAC-10, 11	Pullets
Cobb	Anderson - Section 9	1	LAL6 A-D	4	1	0		
Cobb	Anderson - Section 33	1	LAL18 A-D	4	2	0		
CODD	COBB TOTAL	4		12	6	2		Pullets
Cimmono	Reed	1	LAL9 A-D	4	3	1	FAC-03	Broiler
Simmons Simmons	Collins - historical	1	LAL13 A-D	4	4	0		
Simmons	Barnes - historical	1	LAL1 A	1	1	0		
Siminons	Dallies - Historical						FAC-1A, FAC-1B,	
Simmons	Barnes - compost applied	1	LAL2 A	1	1	1	FAC-1C	Broiler
Simmons	Non-grower - Lane - current - from Barnes	1	LAL3 A,B	2	1	0		
Simmons	Loftin	1	LAL17 A-D	4	1	1	FAC-02	Broiler
Simmons?	Non-grower - Wofford - from Loftin (Simmons) - Bermuda Question	1	LAL11 A-D	4	2	0		
CIIIIOIO	SIMMONS TOTAL	7		20	13	3		Broilers
George's	Glenn	2	LAL14 A-D	4	4	1	FAC-05	Broiler
Georges	GEORGE'S TOTAL	2	D.E.T.T.C.D	4	4	1	1	Broiler
	GEORGE 3 TOTAL					<u> </u>		12.000
Petersons	Saunders	1	LAL15 A-D	4	4	1	FAC-04	Broiler
	PETERSON TOTAL	1		4	4	1		Broiler
Cossill	Schwabe	1	LAL16 A-D	4	4	1	FAC-08	Turkey
Cargill		1	LALIO A-D	4	4	1	11.000	Turkey
	CARGILL TOTAL	-1		4		'		rainey
Control	Nickel Preserve - Old Pasture	1	CL-2 A,B	2	2	0		
	Nickel Preserve - Forest	1	CL-1 A,B	2	2	0		
	Cusick Property - New Pasture	1	CL-3 A,B	2	2	0		
	CONTROL FIELD TOTALS	3		6	6	0		
	2006 SAMPLE TOTALS	22		64	49	11		